New CLSI/NCCLS Antimicrobial Susceptibility Testing (AST) Recommendations M100-S15 Checklist

NA, not applicable

Will Implement	Previously Implemented	NA	Action
General	implemented	1474	Action
Cilciai			Review current product insert from commercial antimicrobial
			susceptibility testing products used in my laboratory and ensure
			all recommendations for testing/reporting are followed. The
			procedures in the manufacturer's product insert takes precedent
			over those found in CLSI/NCCLS standards.
			Obtain written documentation from medical staff for
			testing/reporting of organisms/antimicrobial agents beyond those suggested in CLSI/NCCLS standards.
			Add temperature ranges to AST procedures, if appropriate: 33-
			35°C for staphylococci; 33-37°C for other organism/antimicrobial combinations.
			Review indications for use of daptomycin and develop protocol for testing/reporting with medical staff, if appropriate.
			Review indications for use of telithromycin and develop
			protocol for testing/reporting with medical staff, if appropriate.
			Review indications for using recommended ATCC strains for
			quality assessment (QA). Strains currently suggested for QA
			include: S. aureus ATCC BAA-976 (D zone test)
			S. aureus ATCC BAA-977 (D zone test)
			Klebsiella pneumoniae ATCC 700603 (sometimes
			recommended for QC also)
Gram Negative	s		
			Perform ESBL testing on <i>Proteus mirabilis</i> when isolated from
			significant sources. Note that cefpodoxime, ceftazidime, and
			cefotaxime are appropriate drugs to screen for ESBL production
			in <i>P. mirabilis</i> and screening breakpoints for cefpodoxime differ
			from those for <i>E. coli</i> and <i>Klebsiella</i> spp. Phenotypic
			confirmatory testing and reporting for <i>P. mirabilis</i> is identical to that for <i>E. coli</i> and <i>Klebsiella</i> spp.
			For ESBL screen test QC , test <i>K. pneumoniae</i> ATCC 700603
			OR <i>E. coli</i> ATCC 25922 daily or weekly.
			Use <i>K. pneumoniae</i> ATCC 700603 for QA.
			For ESBL phenotypic confirmatory test QC, test K.
			pneumoniae ATCC 700603 AND E. coli ATCC 25922 daily or weekly.
			Review agents tested/reported on Pseudomonas aeruginosa,
			Acinetobacter spp., Burkholderia cepacia, and
			Stenotrophomonas maltophilia and consider modifying
			procedures based on new recommendations in M100-S15.
			Identify a strategy for testing supplemental agents when an
			isolate is encountered that is resistant to all drugs on routine test
			panel. This may include MIC testing of polymyxin B for highly resistant non-Enterobacteriaceae. Reference laboratory
			assistance may be appropriate.
			Identify a strategy for AST of Neisseria meningitidis , when
			requested. Include a safety protocol for handling this species.
			Reference laboratory assistance may be appropriate.
Gram Positives	5		
			Review potential utility of the cefoxitin disk diffusion test for <i>mec</i> A-mediated resistance in S. aureus . Cefoxitin disk diffusion

		test is comparable to OX MIC, OX disk diffusion, PBP2a and mecA for S. aureus.
		Review potential utility of the cefoxitin disk diffusion test for
		mecA-mediated resistance in coagulase-negative
		staphylococci (CoNS). Cefoxitin disk diffusion test is superior
		to OX MIC and OX disk diffusion for CoNS.
		Determine if testing for <i>mec</i> A would be appropriate when
		equivocal results for oxacillin are encountered in S. aureus or
		CoNS. This would pertain to isolates from critical sources
		following discussion with MD. Reference laboratory assistance
		may be appropriate.
		Apply S. aureus oxacillin MIC and zone diameter breakpoints to
		S. lugdunensis. Apply cefoxitin zone diameter breakpoints
		similarly, if appropriate.
		If using an AST that is unreliable in detecting VISA or VRSA,
		perform BHI vancomycin screen on S. aureus.
		Add CDC's "Algorithm for Testing S. aureus with
		Vancomycin" to AST procedure for S. aureus.
		Obtain S. aureus ATCC BAA-976 and S. aureus ATCC BAA-
		977 for QA of the D zone test for inducible clindamycin
		resistance.
		Apply new gatifloxacin, levofloxacin and moxifloxacin disk
		diffusion and MIC breakpoints for staphylococci .
		Discontinue any extrapolation of results among gatifloxacin,
		levofloxacin and moxifloxacin for Streptococcus
		pneumoniae.
		Perform D zone test for inducible clindamycin resistance on
		beta-hemolytic streptococci prior to reporting a clindamycin-S
		result on an erythromycin-R and clindamycin-S isolate.
		Determine those circumstances when such testing is warranted.
		Implement MMWR 51 (RR-11), 2002 Group B Streptococcus
		screening procedure for pregnant women to include AST of
21122		isolates from women at high risk for penicillin anaphylaxis.
QA/QC		THE IN CO. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
		Modify QC limits for those organism/antimicrobial agent
		combinations listed in M100-S15 (boldface type) for which there
		has been a change in the QC range.
		Test ATCC QC strains daily or weekly even if no new testing
		reagents/materials have been put into use since last QC testing
		was performed.
		Follow manufacturer's QC procedures and use the
		manufacturer's QC ranges even if these differ from
		CLSI/NCCLS QC limits.
		When submitting Salmonella spp. to public health authorities,
		inform them if the isolate demonstrated intermediate or resistant
i		results to a 3 rd generation cephalosporin, intermediate or resistant results to a fluoroquinolone and/or resistance to
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		nalidixic acid.
		nalidixic acid. Review "Summary of Comments and Subcommittee
		nalidixic acid.